

ABSTRACT OF THE DISCLOSURE

A nonlinear broadcast system with improved entire resource utilization efficiency gives priority to securing hardware resources for broadcast, for preventing broadcast accidents.

- 5 A hardware resource management unit determines resource allocation at reproduction start time and reproduction end time of each video data, based on a time schedule of an editing list in a HDD for reproducing plurality of video data. A hardware resource amount such as bandwidth for access to the
- 10 hard disc is made varied to minimize an allocation amount to each video data. Suppose one video data transfer from the HDD for reproduction requires bandwidth 60Mbps. In a duration where one video data is reproduced, bandwidth 60Mbps is secured, while in a duration where two video data are mixed and reproduced,
- 15 bandwidth 120Mbps is secured. To background processing such as network material transfer, allocation is performed by fully utilizing the remaining hardware resource after the allocation for reproduction.